SECTION 06170: PARALLEL STRAND STRUCTURAL TIMBER

PART 1 – GENERAL

1.01 SUMMARY

A. Section Includes: Parallel Strand (PSL) framing members.

1.02 REFERENCES

- A. ASTM D2559 Standard Specification for Adhesives for Structural Laminated Wood Products for Use Under Exterior (Wet Use) Exposure Conditions.
- B. ASTM D5456 Specification for Evaluation of Structural Composite Lumber Products.
- C. National Design Specification for Wood Construction (NDS).
- D. Materials shall comply with NES Report #NER-481 or CCMC Report #11161-R

1.03 SUBMITTALS

- A. Manufacturer's Product and Material Safety Data Sheets, for all specified products.
- B. Shop Drawings: Submit data showing product components, including finish.
- C. Wood Treatment Certificate signed by wood treatment agency certifying that treatment complies with specified requirements.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Manufacturer experienced in PSL production, and capable of providing field service representation during construction.

1.05 DELIVERY, STORAGE & HANDLING

A. Storage and Protection: Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer.

PART 2 – PRODUCTS

2.01 ENGINEERED PARALLEL STRAND STRUCTURAL UNITS

- A. Basis for Design: Trus Joist MacMillan Parallam PSL Heavy Timber.
- B. Douglas Fir, Larch or Hemlock, touch sanded, E = 2.0E6 psi, Fb = 2900 psi; sizes, shapes and profiles as indicated in Contract Documents.
- C. Grade Stamps: All Parallam PSL materials shall comply with NES Report No. NER-481 or CCMC Report No. 11161-R.
- D. Pressure-treat with ACQ or K-8TM preservative to a retention level to meet AWPA standards UC3A or UC3B, then kiln dry to an average moisture content of 15%.

2.02 MATERIALS

- A. PSL shall be manufactured in a continuous process from wood fiber with all strands oriented to the length of the member and then fed into a press. All members are to be free of finger or scarf joints.
- B. Adhesives shall be of waterproof type conforming to the requirements of ASTM D2559.

2.03 FABRICATION

A. PSL shall be manufactured in a plant listed in the above referenced reports under the supervision of an approved third-party inspection agency. It shall be manufactured in a continuous process with all grain parallel with the length of the members.

DIVISION 6 — CARPENTRY Section 06170: Parallel Strand Structural Timber PART 3 –EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

3.02 ERECTION AND INSTALLATION

- A. Install per the Contract Documents and manufacturer's recommendations. Holes, cuts or notches not shown on the contract documents shall not be permitted.
- Repair and field treat all cut, drilled and damaged surfaces per AWPA C2

3.03 CLEANING AND REPAIR

A. Repair or replace damaged installed products. Remove construction debris from project site and legally dispose of debris.

END OF SECTION 06170

Technical Specifications Rev. 02/20/04